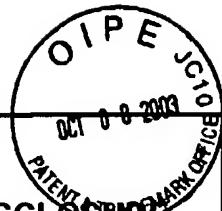


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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1

of 4

Complete if Known	
Application Number	10/054,611
Filing Date	January 18, 2002
First Named Inventor	Cech
Art Unit	1646
Examiner Name	
Attorney Docket Number	015389-002970US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JW	A1	US-5,597,897	01-28-1997	Diamond	
JW	A2	US-5,917,025	06-29-1999	Collins	
JW	A3	US-5,919,656	07-06-1999	Harrington, et al.	
JW	A4	US-6,168,178	12-26-2000	Cech et al.	
JW	A5	US-6,309,867 B1	10-30-2001	Cech et al.	
JW	A6	US-6,337,200 B1	01-08-2002	Morin	
JW	A7	US-6,475,789 B1	11-05-2002	Cech et al.	
JW	A8	US-6,610,839 B1	08-26-2003	Cech et al.	
JW	A9	US-6,617,110 B1	09-09-2003	Cech et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^d
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Examiner Signature	Mr. Articles	Date Considered	06/18/04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2 of 4

Complete if Known

Application Number	10/054,611
Filing Date	January 18, 2002
First Named Inventor	Cech
Art Unit	1646
Examiner Name	

Attorney Docket Number 015389-002970US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JK	C1	ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", <i>Cancer Genet. Cytogenet.</i> , 1992; pp. 204-206, Vol. 61	
JK	C2	CHIU, et al. "Replicative senescence and cell immortality: the role of telomeres and telomerase (44075)", <i>Proc. Soc. Exp. Bio. Med.</i> , 1997, pp. 99-106, Vol. 214.	
JK	C3	CHONG, L. et al. "A Human Telomeric Protein", <i>Science</i> , Dec. 1995, pp. 1663-1667, Vol. 270.	
JK	C4	COUNTER, C. et al. "Telomerase activity in human ovarian carcinoma"; <i>Proc. Natl. Acad. Sci USA</i> ; April 1994; Vol. 91; pp. 2900-2904	
JK	C5	COUNTER, C. et al. "Telomerase Activity in Normal Leukocytes and in Hematologic Malignancies" <i>Blood</i> ; May 1, 1995; pp. 2315-2320, Vol. 85, No. 9.	
JK	C6	COUNTER, C. et al. "Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity", <i>The EMBO Journal</i> ; 1992, pp. 1921-1929, Vol. 11; No. 5, Oxford University Press.	
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JK	C9	FRESHNEY, <i>Culture of Animal Cells, A Manual Basic Technique</i> , p. 4, Alan R. Liss, Inc. New York, 1983.	
JK	C10	Genbank Accession No. A46242; September 21, 1993	
JK	C11	Genbank Accession No. L38903; January 30, 1995	
JK	C12	Genbank Accession No. Q06163; November 01, 1995	
JK	C13	Genbank Accession No. S39696; October 07, 1994	
JK	C14	Genbank Accession No. S53396; May 5, 1995	
JK	C15	GenBank Accession No. U95964; May 5, 1997	
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JK	C17	GOODMAN, R. et al. "Gene Transfer in Crop Improvement", <i>Science</i> , 3 April 1997, pp. 48-54, Vol. 236.	

Examiner Signature	<i>JK</i>	Date Considered	06/18/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

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Application Number	10/054,611
Filing Date	January 18, 2002
First Named Inventor	Cech
Art Unit	1646
Examiner Name	
Attorney Docket Number	015389-002970US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
dwf	C18	GREIDER, C. "Telomeres, Telomerase and Senescence"; <i>BioEssays</i> ; 1990; pp. 363-369, Vol. 12, No. 8.	
dwf	C19	HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" <i>Mutation Research</i> ; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers.	
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dwf	C28	JOHNSON, P. et al., "Expression of Wild-Type p53 Is Not Compatible with Continued Growth of p53-Negative Tumor Cells", <i>Molecular and Cellular Biology</i> , Jan. 1991, p. 1-11, Vol. 11, No. 1.	
dwf	C29	JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", <i>Int. Rev. Immunol.</i> , 1993, pp. 241-250, Vol. 10	
dwf	C30	KIM, N. et al. "Specific Association of Human Telomerase Activity with Immortal Cells and Cancer", <i>Science</i> , 23 December 1994, pp. 2011-2014, Vol. 266.	
dwf	C31	KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; <i>Molecular and Cellular Biology</i> , Feb. 1994, pp. 961-969, Vol. 14, No. 2.	
dwf	C32	LEWIS, A. & CROWE, J.S. "Generation of humanized monoclonal antibodies by 'best fit' framework selection and recombinant polymerase chain reaction", <i>Year Immunol.</i> , 1993, pp. 110-118, Vol. 7	
dwf	C33	Linking telomerase and tumors; <i>Genesis Report- Dx</i> ; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates	
dwf	C34	MALICKI, J. et al. "A human HOX4B regulatory element provides head-specific expression in <i>Drosophila</i> embryos", <i>Nature</i> , 23 July 1992, pp. 345-357, Vol. 358.	

Examiner Signature	dwf	Date Considered	06/18/04
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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4 of 4

Complete If Known	
Application Number	10/054,611
Filing Date	January 18, 2002
First Named Inventor	Cech
Art Unit	1646
Examiner Name	
Attorney Docket Number	015389-002970US

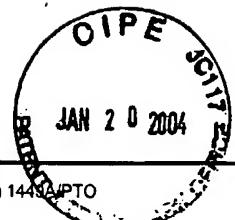
NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C35	NATARAJAN et al. "Major histocompatibility complex determinants select T-cell receptor alpha chain variable region dominance in a peptide-specific response." <i>Proc. Natl. Acad. Sci.</i> , Oct 1992, pp. 8874-8878, Vol. 89.	
	C36	PASZKOWSKI, JERZY et al. "Direct gene transfer to plants," <i>The EMBO Journal</i> , 1984, pp. 2717-2722, Vol. 3, No. 12.	
	C37	POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", <i>Mol. Gen. Genet.</i> , 1985, pp. 183-188, Vol. 199.	
	C38	RAYMOND, E., et al.; Agents that target telomerase and telomeres; <i>Curr. Opin. Biotechnol.</i> ; 1996; 7:583-91	
	C39	RHYU, M.S. "Telomeres, telomerase, and immortality"; <i>J. Natl. Cancer Inst.</i> ; 21 June 1995; pp. 884-894, Vol. 87, No. 12.	
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	C41	SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; <i>Cancer Genet Cytogenet</i> ; 1993; pp. 132-138, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A.	
	C42	SMITH, J. & YEH, G. "Telomere Reduction in Endometrial Adenocarcinoma"; <i>Am. J. Obstet. Gynecol.</i> ; Dec. 1992; pp. 1883-1887, Vol. 167, No. 6	
	C43	TAIT, J. et al. "Structure and Polymorphisms of the Human Annexin III (ANX3) Gene", <i>Genomics</i> , 1993, pp. 79-86, Vol. 18, No. 1	
	C44	WINTER, G. & HARRIS, W. "Humanized Antibodies", <i>Trends Pharmacol. Sci.</i> , May 1993, pp. 139-143, Vol. 14.	
	C45	WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> ; May 1992; pp. 2763-2772, Vol. 66, No. 5.	

Examiner Signature	<i>Whatever</i>	Date Considered	06/18/04
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/054,611
				Filing Date	January 18, 2002
				First Named Inventor	Thomas R. Cech
				Art Unit	1652
				Examiner Name	Małgorzata A. Walicka
Sheet	1	of	1	Attorney Docket Number	015389-002970US

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
MR	A1	US-6,440,735 B1		08-27-2002	Gaeta	
MR	A2	US-6,444,650 B1		09-03-2003	Cech et al.	
MR	A3	US-6,517,834 B1		02-11-2003	Weinrich et al.	
MR	A4	US-6,608,188 B1		08-19-2003	Tsuchiya et al.	
MR	A5	US-6,627,619 B2		09-30-2003	Cech et al.	
MR	A6	US 2002-0164788 A1		11-07-2002	Cech et al.	
MR	A7	US 2002-0187471 A1		12-12-2002	Cech et al.	
MR	A8	US 2003-0009019 A1		01-09-2003	Cech et al.	
MR	A9	US 2003-0032075 A1		02-13-2003	Cech et al.	
MR	A10	US 2003-0044953 A1		03-06-2003	Cech et al.	
MR	A11	US 2003-0096344 A1		05-22-2003	Cech et al.	
MR	A12	US 2003-0100093 A1		05-29-2003	Cech et al.	
MR	A13	U.S. Application No. 09/432,503			Cech et al.	
MR	A14	U.S. Application No. 09/721,477			Cech et al.	
MR	A15	U.S. Application No. 09/721,506			Cech et al.	
MR	A16	U.S. Application No. 90/974,584			Cech et al.	

FOREIGN PATENT DOCUMENTS							
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Examiner Signature	<i>Małgorzata Walicka</i>	Date Considered	06/18/04
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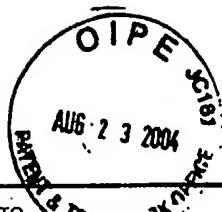
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		Application Number	10/054,611
		Filing Date	January 18, 2002
		First Named Inventor	Cech, Thomas R.
		Art Unit	1652
		Examiner Name	Malgorzata A. Walicka
Sheet	1	of	2
		Attorney Docket Number	015389-002970US

U.S. PATENT DOCUMENTS+				
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	A2			

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)		
	B1			
	B2			

Examiner Signature	<i>M. Walicka</i>	Date Considered	9/24/04
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				<i>Filing Date</i>	January 18, 2002
				<i>First Named Inventor</i>	Cech, Thomas R.
				<i>Art Unit</i>	1652
				<i>Examiner Name</i>	Malgorzata A. Walicka
Sheet	2	of	2	Attorney Docket Number	015389-002970US

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<i>dw</i>	C1	ANDERSON, W. FRENCH "Human Gene Therapy" <i>Nature</i> , April 30, 1998, pp. 25-30, Vol. 392, Supp.		
<i>dw</i>	C2	CAMPBELL, KEITH & WILMUT, IAN "Totipotency or Multipotentiality of Cultured Cells: Applications and Progress" <i>Theriogenology</i> , January 1997, pp. 63-72, Vol. 47, Issue 1, Elsevier Science Inc.		
<i>dw</i>	C3	GEARHART, JOHN "New Potential for Human Embryonic Stem Cells" <i>Science</i> , November 6, 1998; pp. 1061-1062, Vol. 282, Issue 5391.		
<i>dw</i>	C4	HORNSBY, PJ et al. "Adrenocortical Cells Immortalized by Telomerase: Potential Use for <i>Ex Vivo</i> Gene Therapy" <i>Journal of Anti-Aging Medicine</i> , 2000, pp. 411-417, Vol. 3, No. 4.		
<i>dw</i>	C5	OSTLER ELIZABETH L. et al. "Telomerase and the Cellular Lifespan: Implications for the Aging Process" <i>J. of Pediatric Endocrinology & Metabolism</i> , 2000, pp. 1467-1476, Vol. 13, Supplement 6, Freund Publishing House Ltd. London.		
<i>dw</i>	C6	THOMSON, JAMES A. et al. "Embryonic Stem Cell Lines Derived from Human Blastocysts" <i>Science</i> , November 6, 1998; pp. 1145-1147, Vol. 282, Issue 5391.		
	C7			

Examiner Signature	<i>Malgorzata A. Walicka</i>	Date Considered	09/24/04
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Sheet 1

of 2

Complete if Known	
Application Number	10/054,611
Filing Date	January 18, 2002
First Named Inventor	Cech, Thomas R.
Art Unit	1652
Examiner Name	Malgorzata A. Walicka
Attorney Docket Number	015389-002970US

U.S. PATENT DOCUMENTS+

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	A2				

FOREIGN PATENT DOCUMENTS

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				<i>First Named Inventor</i>	Cech, Thomas R.
				<i>Art Unit</i>	1652
				<i>Examiner Name</i>	Malgorzata A. Walicka
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<i>dwf</i>	C3	GEARHART, JOHN "New Potential for Human Embryonic Stem Cells" <i>Science</i> , November 6, 1998; pp. 1061-1062, Vol. 282, Issue 5391.		
<i>dwf</i>	C4	HORNSBY, PJ et al. "Adrenocortical Cells Immortalized by Telomerase: Potential Use for Ex Vivo Gene Therapy" <i>Journal of Anti-Aging Medicine</i> , 2000, pp. 411-417, Vol. 3, No. 4.		
<i>dwf</i>	C5	OSTLER ELIZABETH L. et al. "Telomerase and the Cellular Lifespan: Implications for the Aging Process" <i>J. of Pediatric Endocrinology & Metabolism</i> , 2000, pp. 1467-1476, Vol. 13, Supplement 6, . Freund Publishing House Ltd. London.		
<i>dwf</i>	C6	THOMSON, JAMES A. et al. "Embryonic Stem Cell Lines Derived from Human Blastocysts" <i>Science</i> , November 6, 1998; pp. 1145-1147, Vol. 282, Issue 5391.		
	C7			

Examiner Signature	<i>Malgorzata A. Walicka</i>	Date Considered	<i>11/23/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.